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RAW SEQUENCE LISTING

DATE: 02/27/2003 P.6

PATENT APPLICATION: US/09/284,180A

TIME: 08:19:28

Input Set : A:\2003-02-19 0020-4546P seq list.txt

Output Set: N:\CRF4\02272003\I284180A.raw

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3 <110> APPLICANT: KIMURA, Toru
4     KIKUCHI, Kaoru
6 <120> TITLE OF INVENTION: NOVEL SEMAPHORIN GENE: SEMAPHORIN W
8 <130> FILE REFERENCE: 0020-4546P
10 <140> CURRENT APPLICATION NUMBER: US 09/284,180A
11 <141> CURRENT FILING DATE: 1999-06-09
13 <160> NUMBER OF SEQ ID NOS: 16
15 <170> SOFTWARE: PatentIn Ver. 2.0
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Output Set: N:\CRF4\02272003\I284180A.raw

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179 Leu Ser Ala Pro Val Cys Gly Arg Val Pro Arg Ser Val Pro Arg Thr
180 35 40 45
181 Ser Leu Pro Ile Ser Glu Ala Asp Ser Tyr Leu Thr Arg Phe Ala Ala
182 50 55 60
183 Ser His Thr Tyr Asn Tyr Ser Ala Leu Leu Val Asp Pro Ala Ser His
184 65 70 75 80
185 Thr Leu Tyr Val Gly Ala Arg Asp Ser Ile Phe Ala Leu Thr Leu Pro
186 85 90 95
187 Phe Ser Gly Glu Arg Pro Arg Arg Ile Asp Trp Met Val Pro Glu Thr
188 100 105 110
189 His Arg Gln Asn Cys Arg Lys Lys Gly Lys Lys Glu Asp Glu Cys His
190 115 120 125
191 Asn Phe Ile Gln Ile Leu Ala Ile Val Asn Ala Ser His Leu Leu Thr
192 130 135 140
193 Cys Gly Thr Phe Ala Phe Asp Pro Lys Cys Gly Val Ile Asp Val Ser
194 145 150 155 160
195 Ser Phe Gln Gln Val Glu Arg Leu Glu Ser Gly Arg Gly Lys Cys Pro
196 165 170 175
197 Phe Glu Pro Ala Gln Arg Ser Ala Ala Val Met Ala Gly Gly Val Leu
198 180 185 190
199 Tyr Thr Ala Thr Val Lys Asn Phe Leu Gly Thr Glu Pro Ile Ile Ser
200 195 200 205
201 Arg Ala Val Gly Arg Ala Glu Asp Trp Ile Arg Thr Glu Thr Leu Ser
202 210 215 220
203 Ser Trp Leu Asn Ala Pro Ala Phe Val Ala Ala Met Val Leu Ser Pro
204 225 230 235 240
205 Ala Glu Trp Gly Asp Glu Asp Gly Asp Asp Glu Ile Phe Phe Phe Phe
206 245 250 255
207 Thr Glu Thr Ser Arg Val Leu Asp Ser Tyr Glu Arg Ile Lys Val Pro
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209 Arg Val Ala Arg Val Cys Ala Gly Asp Leu Gly Gly Arg Lys Thr Leu
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Output Set: N:\CRF4\02272003\I284180A.raw

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213 Pro Glu His Gly Arg Ala Ser Gly Val Leu Gln Ala Met Ala Glu Leu
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215 Arg Pro Gln Pro Gly Ala Gly Thr Pro Ile Phe Tyr Gly Ile Phe Ser
216      325      330      335
217 Ser Gln Trp Glu Gly Ala Ala Ile Ser Ala Val Cys Ala Phe Arg Pro
218      340      345      350
219 Gln Asp Ile Arg Ala Val Leu Asn Gly Pro Phe Arg Glu Leu Lys His
220      355      360      365
221 Asp Cys Asn Arg Gly Leu Pro Val Met Asp Asn Glu Val Pro Gln Pro
222      370      375      380
223 Arg Pro Gly Glu Cys Ile Ala Asn Asn Met Lys Leu Gln Gln Phe Gly
224 385      390      395      400
225 Ser Ser Leu Ser Leu Pro Asp Arg Val Leu Thr Phe Ile Arg Asp His
226      405      410      415
227 Pro Leu Met Asp Arg Pro Val Phe Pro Ala Asp Gly Arg Pro Leu Leu
228      420      425      430
229 Val Thr Thr Asp Thr Ala Tyr Leu Arg Val Val Ala His Arg Val Thr
230      435      440      445
231 Ser Leu Ser Gly Lys Glu Tyr Asp Val Leu Tyr Leu Gly Thr Glu Asp
232      450      455      460
233 Gly His Leu His Arg Ala Val Arg Ile Gly Ala Gln Leu Ser Val Leu
234 465      470      475      480
235 Glu Asp Leu Ala Leu Phe Pro Glu Pro Gln Pro Val Glu Ser Met Lys
236      485      490      495
237 Leu Tyr His Asp Trp Leu Leu Val Gly Ser His Thr Glu Val Thr Gln
238      500      505      510
239 Val Asn Thr Ser Asn Cys Gly Arg Leu Gln Ser Cys Ser Glu Cys Ile
240      515      520      525
241 Leu Ala Gln Asp Pro Val Cys Ala Trp Ser Phe Arg Leu Asp Ala Cys
242      530      535      540
243 Val Ala His Ala Gly Glu His Arg Gly Met Val Gln Asp Ile Glu Ser
244 545      550      555      560
245 Ala Asp Val Ser Ser Leu Cys Pro Lys Glu Pro Gly Glu His Pro Val
246      565      570      575
247 Val Phe Glu Val Pro Val Ala Thr Val Gly His Val Val Leu Pro Cys
248      580      585      590
249 Ser Pro Ser Ser Ala Trp Ala Ser Cys Val Trp His Gln Pro Ser Gly
250      595      600      605
251 Val Thr Ala Leu Thr Pro Arg Arg Asp Gly Leu Glu Val Val Val Thr
252      610      615      620
253 Pro Gly Ala Met Gly Ala Tyr Ala Cys Glu Cys Gln Glu Gly Gly Ala
254 625      630      635      640
255 Ala Arg Val Val Ala Ala Tyr Ser Leu Val Trp Gly Ser Gln Arg Gly
256      645      650      655
257 Pro Ser Asn Arg Ala His Thr Val Val Gly Ala Gly Leu Val Gly Phe
258      660      665      670
259 Leu Leu Gly Val Leu Ala Ala Ser Leu Thr Leu Leu Leu Ile Gly Arg

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/284,180A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 1,6

Seq#:15; N Pos. 194,218,243,262,414,427,434,441,463,469,496

Seq#:16; N Pos. 63,269,285

VERIFICATION SUMMARY

DATE: 02/27/2003

PATENT APPLICATION: US/09/284,180A

TIME: 08:19:29

Input Set : A:\2003-02-19 0020-4546P seq list.txt

Output Set: N:\CRF4\02272003\I284180A.raw

L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:180
M:341 Repeated in SeqNo=15
L:643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
M:341 Repeated in SeqNo=16